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NR0B1 Antibody (monoclonal) (M03)

Mouse monoclonal antibody raised against a partial recombinant NR0B1.
Catalog # AT3091a

Product Information

Application	WB, IF, E
Primary Accession	P51843
Other Accession	NM_000475
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG3 Kappa
Clone Names	1F10
Calculated MW	51718

Additional Information

Gene ID	190
Other Names	Nuclear receptor subfamily 0 group B member 1, DSS-AHC critical region on the X chromosome protein 1, Nuclear receptor DAX-1, NR0B1, AHC, DAX1
Target/Specificity	NR0B1 (NP_000466, 361 a.a. ~ 470 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IF~~1:50~200 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	NR0B1 Antibody (monoclonal) (M03) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

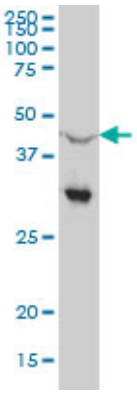
This gene encodes a protein that contains a DNA-binding domain. The encoded protein acts as a dominant-negative regulator of transcription which is mediated by the retinoic acid receptor. This protein also functions as an anti-testis gene by acting antagonistically to Sry. Mutations in this gene result in both X-linked congenital adrenal hypoplasia and hypogonadotropic hypogonadism.

References

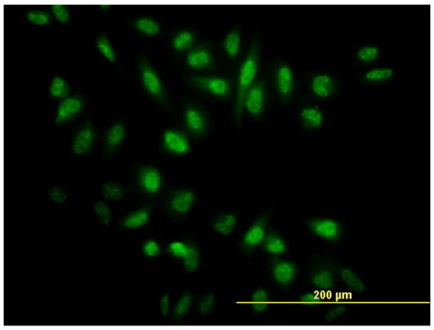
Orphan nuclear receptor DAX-1 acts as a novel corepressor of liver X receptor alpha and inhibits hepatic lipogenesis. Nedumaran B, et al. J Biol Chem, 2010 Mar 19. PMID 20080977.EWS/FLI and its downstream

target NR0B1 interact directly to modulate transcription and oncogenesis in Ewing's sarcoma. Kinsey M, et al. Cancer Res, 2009 Dec 1. PMID 19920188.X-linked congenital adrenal hypoplasia with hypogonadotropic hypogonadism caused by an inversion disrupting a conserved noncoding element upstream of the NR0B1 (DAX1) gene. Skinningsrud B, et al. J Clin Endocrinol Metab, 2009 Oct. PMID 19773398.Retinoic acid-induced nNOS expression depends on a novel PI3K/Akt/DAX1 pathway in human TGW-nu-I neuroblastoma cells. Nagl F, et al. Am J Physiol Cell Physiol, 2009 Nov. PMID 19726747.A novel mutation in DAX1 (NR0B1) causing X-linked adrenal hypoplasia congenita: clinical, hormonal and genetic analysis. Garc?a-Malpartida K, et al. Endocrine, 2009 Oct. PMID 19672728.

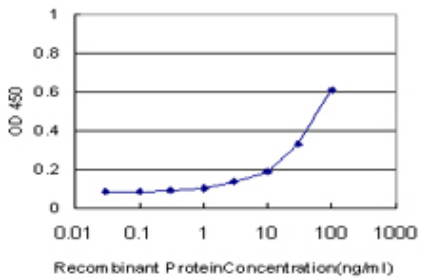
Images



NR0B1 monoclonal antibody (M03), clone 1F10 Western Blot analysis of NR0B1 expression in Hela S3 NE (Cat # L013V3).



Immunofluorescence of monoclonal antibody to NR0B1 on HeLa cell. [antibody concentration 10 ug/ml]



Detection limit for recombinant GST tagged NR0B1 is approximately 3ng/ml as a capture antibody.